PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

10/718,913

Confirmation No.: 2397

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Applicant Filed

John M. McBean et al.

November 21, 2003

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T.C./A.U.

3764

Examiner

Not Yet Assigned

Docket No.

MIT-152AUS

Customer No.

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INFORMATION DISCLOSURE STATEMENT

MS Group Art Unit #3764 Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

It is desired to cite for the record in this application the enclosed documents listed on the attached copy of PTO form PTO/SB/08A (Formerly #1449). The paragraph(s) marked below are applicable to this Information Disclosure Statement.

[X] (1) The enclosed Information Disclosure Statement is being filed: within three months of the filing date; or within three months of the entry of the national stage of the aboveidentified application; or before the mailing of a first Office Action on the merits; or before the

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mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. Accordingly, Applicant(s) believes that no fee or statement is required.

[] (2) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by the fee set forth in 37 C.F.R. § 1.17(p).

SUBMISSION UNDER 37 C.F.R. § 1.97(c) INCLUDING A STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

[] (3) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(c) INCLUDING A STATEMENT UNDER 37 C.F.R. § 1. 97(e)(2)

[] (4) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

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SUBMISSION UNDER 37 C.F.R. § 1.97(c) INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[] (5) Pursuant to 37 C.F.R. § 1.97(c), the enclosed Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d) INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(1)

[] (6) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the accompanying Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d) INCLUDING A STATEMENT UNDER 37 C.F.R. §1.97(e)(2)

[] (7) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by a statement under 37 C.F.R. § 1.97(e)(2) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that no item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to

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any individual having a duty of disclosure as set forth in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the accompanying Information Disclosure Statement.

SUBMISSION UNDER 37 C.F.R. § 1.97(d)

INCLUDING STATEMENTS UNDER 37 C.F.R. §§ 1.704(d) AND 1.97(e)(1)

[] (8) Pursuant to 37 C.F.R. § 1.97(d), the enclosed Information Disclosure Statement is being filed on or before payment of the issue fee and is accompanied by statements under 37 C.F.R. §§ 1.704(d) and 1.97(e)(1) and the fee required under 37 C.F.R. § 1.17(p). The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application mailed not more than three months prior to the filing of the accompanying Information Disclosure Statement and was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the accompanying Information Disclosure Statement.

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy Rule 98(a) (3) even if in a foreign language, since the few terms of relevance therein are deemed of universal cognizance. However, Applicant(s) does not necessarily adopt the position reflected by that report.

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The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 500845

Dated: 19 MARUS

Respectfully submitted,

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By:

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INFORMATION	Application Number	10/718,913	
INFORMATION DISCLOSURE		November 21, 2003	
STATEMENT BY APPLICANT		John M. McBean	
(Use as many sheets as necessary)	Art Unit	3764	
Shect 1	Examiner Name	Not Yet Assigned	
Sheet 1 of 2	Attorney Docket Number	MIT-152AUS	

Examiner	Cite	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
Initials"	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
		Benjuya et al.; "Hybrid Arm Orthosis;" American Academy o Orthotists and Prosthetists, Journal of Prosthetics & Orthotics: https://web.mit.edu.activejointbmce/Private/priorart/3.html; pages 1-3	
		Brown et al.; "The Exoskeleton Glove for Control of Paralyzed Hends:" 1993 IEEE; 1050-4729/93; pages 642-647	
		Harwin et al.; "A Review of Design Issues in Rehabilitation Robotics with Reference to North American Research;" IEEE Transactions on Rehabilitation Engineering, Vol. 3, No. 1, March 1995; 1063-5528/95; pages 3-13	-
. ,		Homma et al.; "An Upper Limb Motion Assist System: Exeriments with Arm Models;" Proceedings of the 1998 IEEE/RSJ Int'l Conference on Intelligent Robots and Systems, Victoria, B.C., Canada; October 1998; 0-7803-4465-0/98; pages 758-763	
		Johnson et al.; "Development of a Mobility Assist for the Paralyzed, Amputee, and Spastic Patient;" 1996 (EEE; 0-7803-3131-1/96; pages 67-70	•
		Kawamato et al.; "Comfortable Power Assist Control Method for Walking Aid by HAL-3;" 2000 IEEE SMC TP1B2: 5 sheets	
		Kiguchi et al; "An Exoskeletal Robot for Human Elbow Motion Support-Sensor Fusion, Adaptation, and Control;" IEEE Transactions on Systems, Man, and Cybernetics-Part B: Cybernetics, Vol. 31, No. 3, June 2001; 1083-4419/01; pages 353-361	
		Krebs et al.; "Robot-Alded Neuro-Rehabilitation in Stroke: Three-Year Folow-Up;" ICORR '99 International Conference on Rehabilitation Robotics, Stanford, CA; pages 34-41	
		Krebs et al.; "Increasing Productivity and Quality of Care: Robot-Aided Neuro-Rehabilitation;" Journal of Rehabilitation Research and Development Vol. 37, No. 6, November/December 2000; https://web.mit-edu/activejoIntbrace/Private/priorart/28.html; pages 1-14	_
		Krebs et al., "Robot-Alded Neurorehabilitation:" IEEE Transactions on Rehabilitation Engineering, Vol. 6, No. 1, March 1998; 1063/6528/98; pages 75-67	

Examiner	-	
	Date	
Signature	Considered	1
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This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) en application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, proparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office. U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheats as necessary)			*	Application Number	10/718,913
			LOSURE	L	November 21, 2003
			PLICANT	First Named Inventor	John M. McBean
			ssary)	Art Unit	3764
			·	Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	MIT-152AUS

Examiner	Cite	OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS	
nitials*	No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, senal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		Lee et al.; "Power Assist Control for Walking Aid with HAL-3 Based on EMG and Impedance Adjustment Around Knee Joint;" Proceedings of the 2002 IEEE/RSJ Int'l Conference on Intelligent Robots and Systems, EPFL, Lausanne, Switzerland. October 2002; 2002 IEEE; 0-7803-7398-7.02; pages 1499-1504	
		Morita et al.; "Basic Study on Rehabilitation Support System for Upper Limb Motor Function;" AMC 2002 - Maribor, Slovenia; 0-7803-7479-7/02; 2002 IEEE; pages 127-132	
		Rosen et al.; "A Myosignal-Based Powered Exoskeleton System;" IEEE Transaction Systems, Man, and Cybernetics-Part AP Systems and Humans, Vol. 31, No. 3, May 2001; 1083-4427/01; 2001 IEEE; pages 210-222	
		Seliktar et al.; "Evaluation of Functional Capabilities of People with Muscular Dystrophy as Potential Users of Power Orthoses;" ASME Summer Bioengineering Conference; 1999, June 16-20, Big Sky Montana; 2 sheets	
		Umetani et al.; ""Skil Mate", Wearable Exoskelton Robot;" 1999 IEEE; 0-7803-5731-0/99; pages fV-984 to IV-988	
	-	Wiegner et al.; "Design of a Triceps Orthosis of: C5/C6 Quadriplegics;" 0-7803-0785-2/92; pages 1485-1486	
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- 1		Date
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